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Derwent Title: **Manufacture of titanium powder, involves reacting titanium tetrachloride and titanium, dissolving formed titanium di- or trichloride in fused salt, and reducing titanium chloride dissolved in salt, using magnesium**

Original Title: ☒ [JP2001192711A2](#): METHOD FOR PRODUCING POWDERY TITANIUM

Assignee: **TOHO TITANIUM CO LTD** Standard company  
Other publications from [TOHO TITANIUM CO LTD \(TOXI\)](#)...

Inventor: **None**

Accession/Update: **2001-592638 / 200167**

IPC Code: **B22F 9/24 ;**

Derwent Classes: **M22; P53;**

Manual Codes: **M22-H01**(Metal powders, granulates, fibres production)

Derwent Abstract: (JP2001192711A2) **Novelty** - Titanium tetrachloride and titanium metal are reacted to form titanium dichloride or titanium trichloride. The formed titanium di- or trichloride is dissolved in composite fused salt containing chlorides of Group Ia or IIa metal. Subsequently, the dissolved titanium chloride in the composite fused salt mixture is reduced using magnesium metal, and the formed titanium powder is then recovered.

**Use** - For sintering titanium alloy.

**Advantage** - The titanium powder with high purity and high quality, is efficiently and inexpensively manufactured. The productivity is improved, since the solubility of titanium chloride is increased. The condensation of titanium powder is restrained and the fine powder with mean particle diameter of 250 microns m (when compared with conventional powder having mean particle diameter of 50 microns m), is obtained.

[Dwg.0/2](#)

Family: **PDF Patent** **Pub. Date** **Derwent Update** **Pages** **Language** **IPC Code**  
☒ [JP2001192711A2](#) \* 2001-07-17 200167 9 English B22F 9/24  
 Local appls.: .....

Priority Number:


Application Number	Filed	Original Title
<a href="#">JP1999000373577</a>	1999-12-28	METHOD FOR PRODUCING POWDERY TITANIUM

Title Terms: **MANUFACTURE TITANIUM POWDER REACT TITANIUM TITANIUM DISSOLVE FORMING TITANIUM DI FUSE SALT REDUCE TITANIUM CHLORIDE DISSOLVE SALT MAGNESIUM**

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